

ABSTRACT OF THE DISCLOSURE

Disclosed is an optical cross-connect device for communication between first and second optical networks communicating with each other using forward and backward optical signals each including of a plurality of channels. The device includes a first
5 circulating part having first through fourth ports configured to output an optical signal, which is input to a higher-order port thereof, from a lower-order port thereof arranged adjacent to the higher-order port. The first circulating part is connected at the first and third ports thereof to a first optical network. A second circulating part has first through fourth ports configured to output an optical signal, which is input to a higher-order port
10 thereof, from a lower-order port thereof arranged adjacent to the higher-order port. A first reflecting part is connected to respective second ports of the first and second circulating parts, and adapted to selectively reflect each channel of a forward optical signal which is input thereto or allow the channel to pass therethrough, and a second reflecting part is connected to respective fourth ports of the first and second circulating parts, and adapted to
15 selectively reflect each channel of a backward optical signal which is input thereto or allow the channel to pass therethrough.